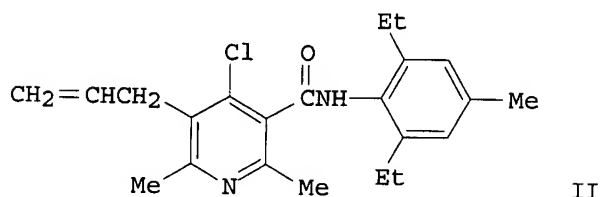
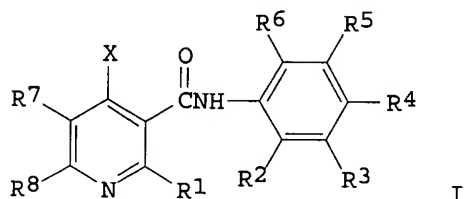


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AB Title compds. I [R1 = C1-11 alkyl, alkenyl, alkynyl, cycloalkyl, alkoxyalkyl, alkylthioalkyl, haloalkyl, 5- or 6-membered heterocyclyl, (un)substituted Ph or aralkyl; R2-R6 = H, halo, cyano, NO2, amino, alkyl, haloalkyl, OH, alkoxy, aryloxy, CO2H, alkoxycarbonyl; R7 = H, halo, alkyl, alkenyl, alkynyl, alkoxy, haloalkyl, (un)substituted Ph or aralkyl; R8 = as given for R1, or R7R8 = (CH2)m; m = 3, 4; X = halo] and their 1-oxides and salts are prepd. as herbicides. 5-Allyl-N-(2,6-diethyl-4-methylphenyl)-1,4-dihydro-2,6-dimethyl-4-oxo-3-pyridinecarboxamide was refluxed in excess POCl3 for 1 h to give allylchloro(diethylmethylphenyl)d imethylpyridinecarboxamide II. Addn. of 50 wt. parts II to 200 parts carrier contg. talc 50, bentonite 25, Solpole-9047, 2, and Solpole-5039, 3 parts gave a wettable powder. As a 20-ppm aq. dispersion applied to seedlings in a lab dish, II completely inhibited *Oryzae sativa*, *Echinochloa crus-galli*, and *Raphanus sativus*.

AN 1989:154162 CAPLUS

DN 110:154162

TI 4-Halopyridine-3-carboxamide derivatives and their herbicidal compositions
IN Yagihara, Hiroshi; Goto, Yukihiya; Masamoto, Kazuhisa; Morishima, Yasuo;
Osabe, Hirokazu

PA Daicel Chemical Industries, Ltd., Japan

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

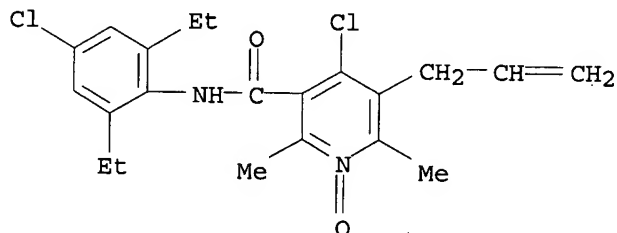
DT Patent

LA English

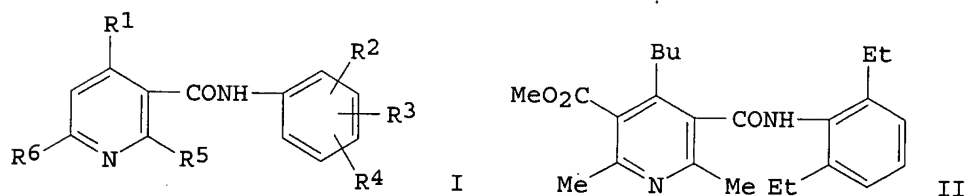
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 292990	A1	19881130	EP 1988-108501	19880527
	EP 292990	B1	19950201		
	R: DE, FR, GB				
	US 4978385	A	19901218	US 1988-199187	19880526
	JP 01207275	A2	19890821	JP 1988-131265	19880527
	JP 2557468	B2	19961127		
	CA 1320488	A1	19930720	CA 1988-567874	19880527
PRAI	JP 1987-131696		19870529		

JP 1987-262333 19871016
 OS MARPAT 110:154162
 IT 119766-03-9P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of, as herbicide)
 RN 119766-03-9 CAPLUS
 CN 3-Pyridinecarboxamide, 4-chloro-N-(4-chloro-2,6-diethylphenyl)-2,6-dimethyl-5-(2-propenyl)-, 1-oxide (9CI) (CA INDEX NAME)



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AB Nicotinamide derivs. (I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3, R4 = H, halo, cyano, alkyl, etc.; R5, R6 = alkyl, haloalkyl, cycloalkyl, aryl, etc.), useful as plant growth inhibitors, are prepd. A mixt. of 2,6-Et2C6H2NHC(=O)CH2COMe and pentanal in CH2Cl2 contg. piperidine was stirred under cooling, treated with Na2SO4 to remove H2O, evapd., and refluxed with Me 2-aminocrotonate in EtOH to give 65% dihydro ester, which was dehydrogenated with NaNO2 in HOAc at 20-25.degree. to give 91% ester II. Refluxing a mixt. of II and LiI in 2,6-lutidine gave 100% free acid, which was heated at 330-350.degree. under N to give 84% nicotinamide deriv. I (R1 = Bu, R2 = R3 = Et at 2,6-position, R4 = H, R5 = R6 = Me). I are effective in inhibiting the growth of barnyard grass at 20 ppm.

AN 1989:8049 CAPLUS
 DN 110:8049
 TI Preparation of nicotinamide derivatives as plant growth inhibitors
 IN Goto, Yukihiisa; Masamoto, Kazuhisa; Yagihara, Hiromu; Morishima, Yasuo; Osabe, Hirokazu
 PA Daicel Chemical Industries, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 20 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1